SEQUENCE LISTING

<110> Rinat Neuroscience Corporation
      Pons, Jaume

<120> AGONIST ANTI-TRKC ANTIBODIES AND METHODS USING SAME

<130> PC19492A

<140> 10/584,443
<141> 2006-06-21

<150> US 60/532,592
<151> 2003-12-23

<150> PCT/US04/43435
<151> 2004-12-23

<160> 31

<170> PatentIn version 3.4

<210> 1
<211> 123
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 1

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
                20   25   30

Arg Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
            35   40   45

Gly Glu Ile Tyr Pro Ser Asn Ala Arg Thr Asn Tyr Asn Glu Lys Phe
        50   55   60

Lys Ser Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65   70   75   80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85   90   95

Ala Arg Lys Tyr Tyr Tyr Gly Asn Thr Arg Arg Ser Trp Tyr Phe Asp
            100   105   110

Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
            115   120

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<210>  2
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<220>
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<400>  2
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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Ile Asp Asn Tyr
            20   25   30

Gly Ile Ser Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
        35   40   45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Arg Gly Ser Gly Val Pro Ser
    50   55   60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
65   70   75   80

Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Lys
            85   90   95

Thr Val Pro Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100   105   110

Thr

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<210>  3
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<220>
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<400>  3
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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1   5   10   15

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<211>  10
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<213>  Artificial

<220>
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<223> Synthetic construct

<400> 4

Gly Tyr Thr Phe Thr Ser Tyr Arg Ile His
1   5   10

<210> 5
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 5

Glu Ile Tyr Pro Ser Asn Ala Arg Thr Asn Tyr Asn Glu Lys Phe Lys
1   5   10   15

Ser

<210> 6.
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 6

Lys Tyr Tyr Tyr Gly Asn Thr Arg Arg Ser Trp Tyr Phe Asp Val
1   5   10   15

<210> 7
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 7

Arg Ala Ser Glu Ser Ile Asp Asn Tyr Gly Ile Ser Phe Leu Ala
1   5   10   15

<210> 8
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 8

Ala Ala Ser Asn Arg Gly Ser
1   5

<210>   9
<211>   9
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic construct

<400>   9

Gln Gln Ser Lys Thr Val Pro Arg Thr
1   5

<210>   10
<211>   339
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<213>   Artificial

<220>
<223>   Synthetic construct

<400>   10
gatatccaga tgacacagtc cccatcctcc ctgtctgcct ctgtgggtga ccgcgtcacc   60

atcacctgcc gcgcaagtga gagcatcgac aactatggca tttccttcct ggcctggtat   120

cagcagaagc cgggcaaagc accaaaactc ctgatctatg ctgcatccaa tcgggggttca   180

ggtgtcccat cacgcttcag tggcagtggc tctggtacag atttcacctt caccattagc   240

agcctgcaac cagaagatat tgccacttat tactgccaac agagtaagac tgtgccacgc   300

actttcggtc aaggcaccaa gctggagatc aaacgcact   339

<210>   11
<211>   654
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<213>   Artificial

<220>
<223>   Synthetic construct

<400>   11
gatatccaga tgacacagtc cccatcctcc ctgtctgcct ctgtgggtga ccgcgtcacc   60

atcacctgcc gcgcaagtga gagcatcgac aactatggca tttccttcct ggcctggtat   120

cagcagaagc cgggcaaagc accaaaactc ctgatctatg ctgcatccaa tcgggggttca   180

ggtgtcccat cacgcttcag tggcagtggc tctggtacag atttcacctt caccattagc   240

agcctgcaac cagaagatat tgccacttat tactgccaac agagtaagac tgtgccacgc   300

actttcggtc aaggcaccaa gctggagatc aaacgcactg tggctgcacc atctgtcttc   360

atcttccctc catctgatga gcagttgaaa tccggaactg cctctgttgt gtgcctgctg   420

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aataacttct atccacgcga ggccaaagta cagtggaagg tggataacgc cctccaatcc      480

ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc      540

agcaccctga ccctgagcaa agcagactac gagaaacaca aagtctacgc ctgcgaagcc      600

acccatcagg gcctgagttc tccagtcaca aagagcttca accgcggtga gtgc            654
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<213> Artificial

<220>
<223> Synthetic Construct

<400> 12
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tcctgcaaag catctggtta caccttacc agctatcgga tccactgggt gcgccaagcc      120

cctggtcaag gcctggagtg gatgggcgaa atctacccaa gcaacgcgcg cactaactac      180

aacgagaagt tcaaatcccg ggtgaccatg actcgcgata cctccaccag cactgtctac      240

atggaactga gctctctgcg ctctgaggac actgctgtgt attactgtgc cgccaagtac      300

tattacggca atacgcgtcg ctcctggtac ttcgatgtgt ggggccaggg taccactgtt      360

accgtgtcc                                                              369
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<210> 13
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<220>
<223> Synthetic Construct

<400> 13
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tcctgcaaagca tctggttaca cctttaccag ctatcggatc cactgggtgc gccaagcc      120

cctggtcaaggc ctggagtgga tgggcgaaat ctacccaagc aacgcgcgca ctaactac      180

aacgagaagttc aaatcccggg tgaccatgac tcgcgatacc tccaccagca ctgtctac      240

atggaactgagc tctctgcgct ctgaggacac tgctgtgtat tactgtgccc gcaagtac      300

tattacggcaat acgcgtcgct cctggtactt cgatgtgtgg ggccagggta ccactgtt      360

accgtgtcctct gcctccacca aggccccatc tgtcttccca ctggccccat gctcccgc      420

agcacctccgag agcacagccg ccctgggctg cctggtcaag gactacttcc cagaacct      480

gtgaccgtgtcc tggaactctg gcgctctgac cagcggcgtg cacaccttcc cagctgtc      540

ctgcagtcctca ggtctctact ccctcagcag cgtggtgacc gtgccatcca gcaacttc      600
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ggcacccagacc tacacctgca acgtagatca caagccaagc aacaccaagg tcgacaag      660

accgtggagaga aagtgttgtg tggagtgtcc accttgtcca gcccctccag tggccgga      720

ccatccgtgttc ctgttccctc caaagccaaa ggacaccctg atgatctcca gaacccca      780

gaggtgacctgt gtggtggtgg acgtgtccca cgaggaccca gaggtgcagt tcaactgg      840

tatgtggacgga gtggaggtgc acaacgccaa gaccaagcca agagaggagc agttcaac      900

tccaccttcaga gtggtgagcg tgctgaccgt ggtgcaccag gactggctga acggaaag      960

gagtataagtgt aaggtgtcca acaagggact gccatccagc atcgagaaga ccatctcc     1020

aagaccaaggga cagccaagag agccacaggt gtataccctg ccaccatcca gagaggag     1080

atgaccaagaac caggtgtccc tgacctgtct ggtgaaggga ttctatccat ccgacatc     1140

gccgtggagtgg gagtccaacg acagccaga gaacaactat aagaccaccc ctccaatg     1200

ctggactccgac ggatccttct tcctgtattc caagctgacc gtggacaagt ccagatgg     1260

cagcagggaaac gtgttctctt gttccgtgat gcacgaggcc ctgcacaacc actatacc     1320

cagaagagcctg tccctgtctc caggaaag                                     1350
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<210> 14
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<400> 14

Trp Gln Gly Thr Leu Val Thr Val Ser Ser
1   5   10

<210> 15
<211> 11
<212> PRT
<213> Homo sapiens

<400> 15

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1   5   10

<210> 16
<211> 10
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<213> Artificial

<220>
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<220>
<221> VARIANT
<222> (8)..(8)
<223> X = R or W

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<220>
<221>  VARIANT
<222>  (9)..(9)
<223>  X = I, L, R or M

<400>  16

Gly Tyr Thr Phe Thr Ser Tyr Xaa Xaa His
1               5                   10


<210>  17
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<220>
<223>  Synthetic construct


<220>
<221>  VARIANT
<222>  (7)..(7)
<223>  X = A, T, S, or G

<220>
<221>  VARIANT
<222>  (16)..(16)
<223>  X = K or E

<400>  17

Glu Ile Tyr Pro Ser Asn Xaa Arg Thr Asn Tyr Asn Glu Lys Phe Xaa
1               5                   10                  15

Ser


<210>  18
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic construct


<220>
<221>  VARIANT
<222>  (7)..(7)
<223>  X = T or S

<220>
<221>  VARIANT
<222>  (8)..(8)
<223>  X = R, Q, K, S OR Y

<400>  18

Lys Tyr Tyr Tyr Gly Asn Xaa Xaa Arg Ser Trp Tyr Phe Asp Val
1               5                   10                  15
```

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<210>   19
<211>   15
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<220>
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<220>
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<223>   X = I or V

<220>
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<220>
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<223>   X = L or M

<220>
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<222>   (15)..(15)
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<400>   19

Arg Ala Ser Glu Ser Xaa Asp Xaa Tyr Gly Ile Ser Phe Xaa Xaa
1               5                   10                  15


<210>   20
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<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic construct


<220>
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<222>   (5)..(5)
<223>   X = R, L, or Q

<400>   20

Ala Ala Ser Asn Xaa Gly Ser
1               5


<210>   21
<211>   9
<212>   PRT
<213>   Artificial

<220>
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<223> Synthetic construct

<220>
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<222> (5)..(5)
<223> X = T, A, S or E

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Gln Gln Ser Lys Xaa Val Pro Arg Thr
1   5

<210> 22
<211> 10
<212> PRT
<213> Mus musculus

<400> 22

Gly Tyr Thr Phe Thr Ser Tyr Trp Met His
1   5   10

<210> 23
<211> 17
<212> PRT
<213> Mus musculus

<400> 23

Glu Ile Tyr Pro Ser Asn Gly Arg Thr Asn Tyr Asn Glu Lys Phe Lys
1   5   10   15

Ser

<210> 24
<211> 15
<212> PRT
<213> Mus musculus

<400> 24

Lys Tyr Tyr Tyr Gly Asn Ser Tyr Arg Ser Trp Tyr Phe Asp Val
1   5   10   15

<210> 25
<211> 15
<212> PRT
<213> Mus musculus

<400> 25

Arg Ala Ser Glu Ser Val Asp Asn Tyr Gly Ile Ser Phe Met Asn
1   5   10   15

<210> 26

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<211>  7
<212>  PRT
<213>  Mus musculus

<400>  26

Ala Ala Ser Asn Gln Gly Ser
1               5


<210>  27
<211>  9
<212>  PRT
<213>  Mus musculus

<400>  27

Gln Gln Ser Lys Glu Val Pro Arg Thr
1               5


<210>  28
<211>  450
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic sequence

<400>  28

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1               5                   10                  15


Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
                20                  25                  30


Arg Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


Gly Glu Ile Tyr Pro Ser Asn Ala Arg Thr Asn Tyr Asn Glu Lys Phe
    50                  55                  60


Lys Ser Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65                  70                  75                  80


Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95


Ala Arg Lys Tyr Tyr Tyr Gly Asn Thr Arg Arg Ser Trp Tyr Phe Asp
                100                 105                 110


Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
        115                 120                 125
```

```
Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu
    130             135             140

Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
145             150             155             160

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
                165             170             175

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
            180             185             190

Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn
        195             200             205

Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg
    210             215             220

Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly
225             230             235             240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
            245             250             255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
        260             265             270

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
    275             280             285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg
    290             295             300

Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys
305             310             315             320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
            325             330             335

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340             345             350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355             360             365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370             375             380
```

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met
385   390   395   400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405   410   415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420   425   430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435   440   445

Gly Lys
    450

<210>   29
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<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic construct

<400>   29

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Ile Asp Asn Tyr
            20   25   30

Gly Ile Ser Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
        35   40   45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Arg Gly Ser Gly Val Pro Ser
    50   55   60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
65   70   75   80

Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Lys
                85   90   95

Thr Val Pro Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100   105   110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
        115   120   125

```
Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
    130                 135                 140

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145                 150                 155                 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
                165                 170                 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
            180                 185                 190

His Lys Val Tyr Ala Cys Glu Ala Thr His Gln Gly Leu Ser Ser Pro
        195                 200                 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210                 215
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